

SLOVENSKI STANDARD oSIST prEN 18001:2023

01-december-2023

Obešene fasade - Okoljske deklaracije za proizvode - Pravila za kategorije za obešene fasade

Curtain walling - Environmental Product Declarations - Product category rules for curtain walling

Vorhangfassade - Umweltproduktdeklarationen - Produktkategorieregeln für Vorhangfassade

Façade rideau - Déclarations environnementales des produits - Règles de définition des catégories de produits pour façade rideau

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Fasade

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT prEN 18001

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ICS

English Version

Curtain walling - Environmental Product Declarations - Product category rules for curtain walling

Façade rideau - Déclarations environnementales de produits - Règles de définition des catégories de produits pour Façade rideau Vorhangfassade - Umweltproduktdeklarationen -Produktkategorieregeln für Vorhangfassade

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 33.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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EUROPEAN COMMITTEE FOR STANDARDIZATION COMITÉ EUROPÉEN DE NORMALISATION EUROPÄISCHES KOMITEE FÜR NORMUNG

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European foreword

This document (prEN 18001:2023) has been prepared by Technical Committee CEN/TC 33 "Doors, windows, shutters, building hardware and curtain walling", the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

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Introduction

This document provides core product category rules for all construction products and services. It provides a structure to ensure that all Environmental Product Declarations (EPD) of construction products, construction services and construction processes are derived, verified and presented in a harmonized way.

This document provides complementary product category rules (cPCR) for Type III Environmental Declarations (EPD) specifically for curtain walling.

An EPD communicates verifiable, accurate, non-misleading environmental information for products and their applications, thereby supporting scientifically based, fair choices and stimulating the potential for market-driven continuous environmental improvement.

The standardization process has taken place in accordance with EN ISO 14025. All common issues for curtain walling are covered horizontally in order to minimize intra-sectorial deviations.

EPD information is expressed in information modules, which allow easy organization and expression of data packages throughout the lifecycle of the product. The approach requires that the underlying data should be consistent, reproducible and comparable.

The EPD is expressed in a form that allows aggregation (addition) to provide complete information for buildings. Neither EN 15804:2012+A2:2019 nor this document deals with aggregation at the building level or describes the rules for applying EPD in building assessment.

This document deals with a limited number of quantifiable predetermined parameters as defined in EN 15804:2012+A2:2019. Future revisions may incorporate additional predetermined parameters.

This document provides the means for developing a Type III environmental declaration for curtain walling, thereby supplementing the suite of standards that are intended to assess the sustainability of construction works.

This suite of standards includes:

- EN 15643, Sustainability of construction works Framework for assessment of buildings and civil engineering works;
- EN 15804:2012+A2:2019, Sustainability of construction works Environmental product declarations 23 Core rules for the product category of construction products;
 - CEN/TR 15941, Sustainability of construction works Environmental product declarations Methodology for selection and use of generic data;
 - EN 15942, Sustainability of construction works Environmental product declarations Communication formats: business to business;
 - EN 15978, Sustainability of construction works Assessment of environmental performance of buildings Calculation method.

1 Scope

This document provides product category rules (PCR) for Type III environmental declarations for curtain walling as defined in EN 13830:2015+A1:2020, excluding openable infills. Openable infills are addressed according to EN 17213:2020.

This document complements the core rules for the product category of construction products as defined in EN 15804:2012+A2:2019. This document complements EN 15804:2012+A2:2019 and do not replace it.

NOTE The assessment of social and economic performances at product level is not covered by this document.

The core PCR:

- defines the parameters to be declared and the way in which they are collated and reported;
- describes which stages of a product's life cycle are considered in the EPD and which processes are to be included in the life cycle stages;
- defines rules for the development of scenarios;
- includes the rules for calculating the Life Cycle Inventory and the Life Cycle Impact Assessment underlying the EPD, including the specification of the data quality to be applied;
- includes the rules for reporting the predetermined, environmental and health information that is not covered by Life Cycle Assessment (LCA) for the product, construction process(es) and construction service(s), as relevant;
- defines the conditions under which construction products can be compared based on the information provided by EPD.

For the EPD of construction services the same rules and requirements apply as for the EPD of construction products.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13119:2016, Curtain walling — Terminology

EN 13830:2015+A1:2020, Curtain walling — Product standard

EN 15804:2012+A2:2019, Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products

EN 15942, Sustainability of construction works — Environmental product declarations — Communication format business to business

EN 17074, Glass in building — Environmental product declaration — Product category rules for flat glass products

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 13830:2015+A1:2020, EN 13119:2016, EN 15804:2012+A2:2019 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp/
- IEC Electropedia: available at https://www.electropedia.org/

3.1 differences in the meaning of terms between EN 13830:2015+A1:2020, EN 13119 and EN 15804:2012+A2:2019

EN 13830:2015+A1:2020 and EN 13119:2016	EN 15804:2012+A2:2019
Curtain walling	Product
Frame (e.g. mullions and transoms), infill panels (e.g. IGU) and other parts	Component

4 Symbols and abbreviated terms

For the purposes of this document, the following symbols and abbreviations apply.

BOM	Bill of materials // standards.iteh.ai)			
c-PCR	Complementary product category rules			
EPD	Environmental product declaration Preview			
IGU	Insulated glass unit OSIST prEN 18001:2023			

LCA Life cycle assessment

LCI Life cycle inventory analysis

LCIA Life cycle impact assessment

PCR Product category rules

RSL Reference service life

5 General aspects

5.1 Objective of this PCR

An EPD according to this document provides quantified environmental information for a curtain walling using a uniform and scientific basis. It also provides information on health related emissions to indoor air, soil and water during the use stage of the building. The purpose of an EPD in the construction sector

is to provide the basis for assessing building and other construction works, and identifying those which cause less stress to the environment.

Thus, the objective of this complementary PCR is to ensure:

- the provision of verifiable and consistent data for an EPD for curtain walling, based on LCA;
- the provision of verifiable and consistent product related technical data or scenarios for the assessment of the environmental performance of buildings;
- the provision of verifiable and consistent product related technical data or scenarios potentially related to the health of users for the assessment of the performance of buildings;
- that comparisons between curtain walling are carried out in the context of their application in the building;
- the consistent communication of the environmental information of door sets and windows.

Declarations based on this document are not comparative assertions.

NOTE EN 15804:2012+A2:2019, 3.4 and EN ISO 14044:2006, 5.3 for more information concerning LCA used for comparative assertion.

5.2 Types of EPD with respect to life cycle stages covered

EN 15804:2012+A2:2019 shall apply.

5.3 Comparability of EPD for construction products

EN 15804:2012+A2:2019 shall apply.

5.4 Additional environmental information

5.4.1 General

EN 15804:2012+A2:2019 shall apply.

5.4.2 Additional impact indicators and sist/61d4c67c-de5e-407a-9d4f-ec7a556c65c0/osist-pren-18001-2023

EN 15804:2012+A2:2019 shall apply.

5.4.3 Additional information on carbon offset, carbon storage and delayed emissions

EN 15804:2012+A2:2019 shall apply.

5.4.4 Additional Information not derived from LCA

EN 15804:2012+A2:2019 shall apply.

5.5 Ownership, responsibility and liability for the EPD

EN 15804:2012+A2:2019 shall apply with the following addition:

- it shall be stated which kind of EPD is created, e.g. company specific EPD or average EPD (e.g. by trade association). For information how to calculate different types of EPD, see EN 15804:2012+A2:2019, 6.3.7;
- when intending to use average EPDs, the manufacturer shall be authorized to do so within the document by the organization (program operator) responsible for the original EPD.